



**AUDIOACCESS®**  
Simply Ingenious



# AVR21EN

**W.H.E.N.™ A/V Receiver**  
**Multizone System Controller**

The Whole-House Entertainment Network from Audioaccess® is a radically simple approach to whole-house entertainment. Built around the world's first high-performance A/V receiver integrated with source control and multizone audio and video distribution, W.H.E.N. systems are capable of streaming eight central entertainment sources (including up to six video sources) to a home theater and as many as 20 additional rooms.

#### **W.H.E.N.™ begins here and now**

The centerpiece of every W.H.E.N. system is the Audioaccess AVR21EN, a high-performance surround receiver that incorporates exciting new technologies from Audioaccess to enhance the whole-house and home theater experience. It features a cutting-edge digital amplifier design and every popular surround sound processing technology, including Dolby® Pro Logic® IIx, DTS Neo:6® and Logic 7®.

Furthermore, the patented EzSet equalization technology makes fine-tuning the system to the particular acoustic needs of the listening space virtually automatic.

#### **Outstanding audio, and DCDi by Faroudja® video**

Audioaccess has been producing premium-quality custom audio systems for more than 20 years. The AVR21EN continues that tradition and extends it to the world of home theater and video. In addition to its comprehensive sound-processing capabilities, the AVR21EN includes DCDi by Faroudja video-processing technology. The award-winning DCDi by Faroudja codec effectively "upconverts" standard-definition video pictures to the HDTV format (to 1080i via an HDMI™ output), enhancing viewer enjoyment and extending the useful life of existing DVD libraries.

But it also features something unprecedented: control of up to six external A/V sources

and two internal AM/FM tuners, and two-way remote routing of composite video and digital audio and control signals. The system extends audio signals throughout the home by using a proprietary Digital Signal Transfer bus.

As the first 7.1-channel receiver with an onboard multizone system controller, the AVR21EN doesn't just provide outstanding A/V performance – it reduces system complexity and improves ease of use. With intuitive on-screen programming and a built-in library of IR codes, the AVR21EN can be set up to control a variety of components and whole-house features – without the use of a PC.

As the heart of a premium home theater installation or as the central component of a fully integrated whole-house infotainment system, the AVR21EN is both unique and uniquely capable.

**[www.audioaccess.com](http://www.audioaccess.com)**

# Features

## Audio

- ▲ 70 Watts x 2 stereo mode
- ▲ 70 Watts x 7 multichannel mode
- ▲ Two AM/FM tuners
- ▲ Six rear-panel analog inputs; one front-panel analog input
- ▲ Four rear-panel digital inputs: two optical, two coax; front panel: one coax, one optical
- ▲ EzSet/EQ; includes microphone
- ▲ Surround modes include: Dolby® Digital EX, Dolby Pro Logic® II, Dolby Pro Logic IIx, Dolby Headphone, DTS®, DTS Neo:6®, Logic 7® and more
- ▲ Additional 7.1-channel DVD audio input
- ▲ 7.1-Channel preamp outputs
- ▲ Flash-upgradeable

## Video

- ▲ Seven rear-panel composite and S inputs; one front-panel composite and S input
- ▲ Five rear-panel component video inputs; one front-panel component input
- ▲ DCDi by Faroudja® upconverter scales all inputs to 1080i via HDMI™ output and 480P via component output
- ▲ Composite video camera input

## Controller

- ▲ On-screen programming for all AVR and whole-house functions
- ▲ Six dedicated IR outputs with built-in IR library and front-panel IR learning
- ▲ Three RS-232 source interface ports

- ▲ Six "Flag In" source status ports

- ▲ One 12-volt trigger output

- ▲ One RS-232 port for control of AVR functions and programming upgrades

- ▲ One external IR receiver input and loop-through output

## Multiroom

- ▲ Two multiroom digital audio bus outputs stream eight digital audio sources and two-way control signals
- ▲ Six composite multiroom video outputs

# Connector Complement/Preliminary Specifications



## Audio Section

- ▲ Stereo mode: 70 Watts per channel, continuous average power (FTO), 20Hz – 20kHz, @ <0.1% THD, both channels driven into 8 ohms
- ▲ Seven-channel surround modes: 70 Watts per channel, all channels driven, @ <0.1% THD, 20Hz – 20kHz into 8 ohms
- ▲ Input sensitivity/impedance linear (high-level): 200mV/47k ohms
- ▲ Signal-to-noise ratio (IHF-A): 97dB
- ▲ Surround system adjacent channel separation – Dolby® Pro Logic® I/II/IIX: 40dB
- Dolby® Digital: 55dB
- DTS®: 55dB
- ▲ Transient intermodulation distortion (TIM): Unmeasurable

## FM Tuner Section

- ▲ Frequency range: 87.5 – 108MHz
- ▲ Usable sensitivity: IHF 1.3µV/13.2dBf
- ▲ Signal-to-noise ratio (mono/stereo): 70/68dB
- ▲ Distortion (mono/stereo): 0.2/0.3%
- ▲ Stereo separation: 40dB @ 1kHz
- ▲ Selectivity: ±400kHz, 70dB
- ▲ Image rejection: 80dB
- ▲ IF rejection: 90dB

## AM Tuner Section

- ▲ Frequency range: 520kHz – 1720kHz
- ▲ Signal-to-noise ratio: 45dB
- ▲ Usable sensitivity: Loop 500µV
- ▲ Distortion: 1kHz, 50% mod 0.8%
- ▲ Selectivity: ±10kHz, 30dB

## Video Section

- ▲ Television format: NTSC
- ▲ Input level/impedance: 1V p-p/75 ohms
- ▲ Output level/impedance: 1V p-p/75 ohms
- ▲ Video frequency response – Composite and S-video: 10Hz – 8MHz (-3dB)
- Component video: 10Hz – 50MHz (-3dB)

## General

- ▲ Power requirement: AC 120V/60Hz
- ▲ Power consumption – Standby: 14W
- Idle: 77W
- Max (seven channels driven): 768W
- Dimensions (H x W x D) – Product: 6-5/8" x 17-5/16" x 17-1/8" (168mm x 439mm x 434mm)
- Shipping: 10-7/8" x 22-3/4" x 21-3/4" (276mm x 578mm x 552mm)
- Weight – Product: 25 lb (11.4kg)
- Shipping: 32 lb (14.5kg)

Specifications are preliminary and subject to change.

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